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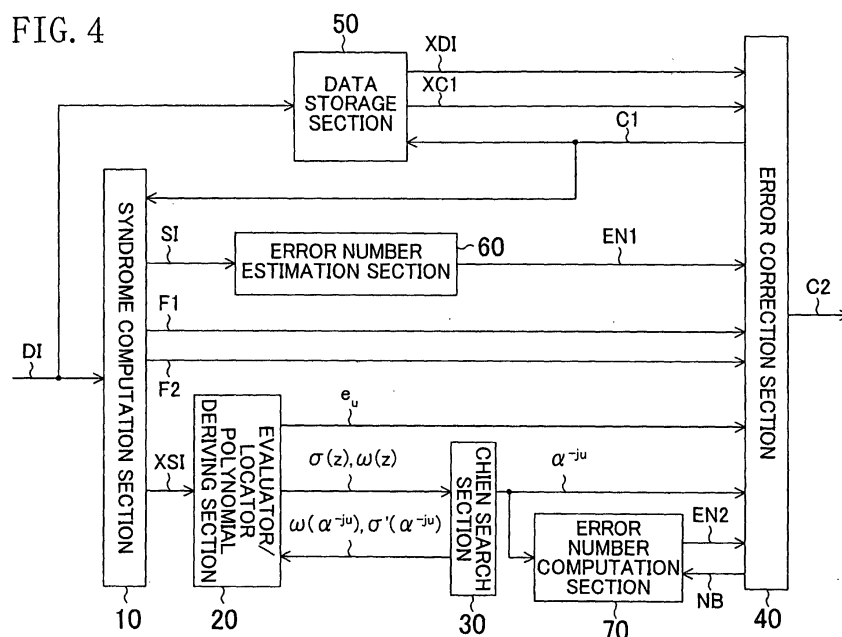
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(54) Method and device for decoding of Reed-Solomon codes

(57) A decoding device for decoding of Reed-Solomon codes and extended Reed-Solomon codes compares the number of errors (EN1) estimated from input data syndromes by an error number estimation section (60) with the number of errors (EN2) computed by an error number computation section (70) during decoding process, performs error correction by an error correction

section (40) based on this comparison result and the input data syndromes (SI), performs a syndrome computation for error corrected data (C1) by a syndrome computation section (10) again to obtain corrected data syndromes, and outputs input data (DI) as second corrected data (C2) when erroneous correction is performed or the estimated number of errors differs from the computed number of errors.





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 8506

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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Y	* abstract *	2	
A	* paragraph [0042] - paragraph [0060] *	3-6,8-14	
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		18 October 2004	Burkert, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 03 02 8506

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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